



IEEE COMMUNICATIONS SOCIETY

Wireless Communications Technical Committee (WTC)

ICC 2014

Sydney, Australia

Thursday 12th June - 12:00 -14:00
Sheraton on the Park, Sydney, Australia
Times on the Park/Level 1

Agenda

- ◆ 1. Welcome and Introduction
- ◆ 2. Approval of the Agenda
- ◆ 3. Approval of the WTC meeting minutes (Globecom 2013)
- ◆ 4. Update of WTC activities
 - ◆ -WTC Representatives
 - Student competition
 - Standards
 - ◆ -Symposium Co-Chairs
 - ◆ -Conference sponsorship
 - ◆ -IEEE Recognition Award
 - ◆ -Others
- ◆ 5. Current status and mission of WTC
- ◆ 6. Brief Conference Reports
- ◆ 7. Next WTC Meeting
- ◆ 8. Any other business

Minutes of WTC meeting held at Globecom 2013

- ◆ **Committee Members Present: 92 (with names and emails recorded)**
- ◆ Welcome by Prof. Ross Murch (WTC Chair) and summary of the agenda of the meeting.
- ◆ Minutes of the WTC meeting at ICC13 were unanimously approved by the attendees. Ross reminded the attendees of the mission of the WTC.
- ◆ Ross introduced the current officers and mentioned the names of the past chairs.
- ◆ Ross presented the Recognition award to Geoffrey Li.
- ◆ Ross briefed the positive recertification process.
- ◆ Ross introduced the newly appointed WTC standards liaison for ComSoc: Dr. Sumei Sun
- ◆ Ross provided a summary on the impact of WTC on major conferences and journals.
- ◆ Ross provided guidelines on how a WTC member can become/serve as an ICC/GC individual symposium co-chair. He encouraged the attendees to express their interests by contacting one of the TC officers. He briefed the attendees about the ICC'15 symposium co-chair nomination status.
- ◆ Ross explained the other accomplishments of WTC in terms of nomination for IEEE/ComSoc Service Award, endorsement for IEEE Fellow and Senior Members, and nomination for ComSoc distinguished lecturers.

Minutes of WTC meeting held at ICC 2013

- ◆ **Committee Members Present: 92 (with names and emails recorded)**
- ◆ Ross reminded the attendees about future ICC/GC and other WTC related conferences.
- ◆ Ross detailed the attendees about the WTC website and email list.
- ◆ Ross announced that the next WTC meeting will be held at ICC 2014 in Australia.



Update of WTC Activities

ComSoc student competition updates

1. ComSoc started this activity last year and will now start second round with the same theme as last year: “Communications Technology Changing the World”
2. For graduate and undergraduate students. Please review details at: <http://www.comsoc.org/communications-technology-changing-world>
 - US\$2,000 for 1st and US\$1000 for 2nd plus merits
 - Project with social impact on humanity or local community
 - <http://www.comsoc.org/communications-technology-changing-world>
3. Student Competition Committee will select winners from an online submission
4. Every TC has a volunteer representative and our representative is Prof. Abd-Elhamid M. Taha Alfaisal University, Saudi Arabia (two year term and his term expires 30 June 2015)
5. Nelson Fonseca and Stefano Bregni, respectively past and current ComSoc VP Member Relations, will chair the Student Competition Committee again



Update of WTC Activities

WTC Standards Liaison for Comsoc

1. Every TC has a standards liaison that works with Comsoc standards
 2. Dr. Sumei SUN, Institute for Infocomm Research, Singapore
 3. Term June 2013- June 2015
 4. Further details of activities can be found at <http://committees.comsoc.org/standards/>
- ◆ Approximately one meeting per month (teleconference or at ICC/Globecom)
 - ◆ ComSoc sponsored standards are designated IEEE1900 through IEEE1999 standards
 - ◆ Currently active in IEEE1901, 1902 ... and power line communications is one success area
 - ◆ Consider the impact of 802 standards
 - ◆ Encourage members of WTC to push standards of interest to this TC and discuss with Dr Sun.

Update of WTC Activities

WTC Standards Liaison for Comsoc

1. Rob Fish, VP Standards, Mehmet Ulema, Chair (Com/SDB)
2. One example from ComSoc standards web page



The screenshot shows the IEEE ComSoc Standards Activities website. The header includes the IEEE Communications Society logo and the text "IEEE COMSOC STANDARDS ACTIVITIES Standards Development". A navigation menu on the left lists various sections. The main content area is titled "Active Standards Committees and Working Groups" and lists three sponsors: COM/SDB, COM/DySPAN-SC, and COM/PLC. Under COM/SDB, several active committees and working groups are listed, each with a link to its website and a mentor.

IEEE COMMUNICATIONS SOCIETY **IEEE COMSOC STANDARDS ACTIVITIES** **IEEE**
Standards Development

HOME
Standards Development Board Meetings
Standards Development Board Roster
Standards Development Board Policies & Procedures
Active Standards Committees & Working Groups
Approved Standards & Active Projects
Standards Development Resources

Active Standards Committees and Working Groups

The three **Sponsors** under ComSoc are:

- ComSoc Standards Development Board (**COM/SDB**)
- DySPAN Standards Committee (**COM/DySPAN-SC**)
- Power Line Communication Standards Committee (**COM/PLC**)

COM/SDB oversees the following active Standards Committee and Working Groups:

- **Teletest** Standards Committee
- **NGSON (1903)** Working Group
 - [Website](#)
 - [Mentor](#)
- **SIEPON (1904.1)** Working Group
 - [Website](#)
- **NanoCom (1906.1)** Working Group
 - [Mentor](#)
- **QoE for RT MVC (1907.1)** Working Group
 - [Website](#)
 - [Mentor](#)
- **IndicVirtualKeyboards (1908.1)** Working Group
 - [Mentor](#)
- **Loop-Free Switching and Routing (1910)** Working Group
 - [Website](#)
 - [Mentor](#)

To see all active Working Groups sponsored by DySPAN-SC or PLC-SC, please go to the respective Sponsor Websites.

Update of WTC Activities

WTC Standards Liaison for Comsoc

CALL FOR PARTICIPATION

IEEE COMMUNICATIONS SOCIETY STANDARDS ACTIVITIES COUNCIL

Software Defined and Virtualized Ecosystem Standards Activities

As part of IEEE ComSoc's strategy to create new standards development projects in today's highly dynamic technological environment, the ComSoc Standards Activities Council has initiated a number of standardization programs on what we call "Software Defined and Virtualized Ecosystem." These initiatives include: a Study Group (SG), two Research Groups (RGs) and a Task Group (TG) as described below:

- **Study Group on "Security, Reliability, and Performance for Software Defined and Virtualized Ecosystems"**
The objective of this SG is to identify primary standards development opportunities in the reliability, performance, and security aspects of the SDN, NFV, NGSON, and related areas and thus prepare a Project Authorization Request (PAR) to launch the official standardization process.
(Contact: Spiros Makris, Chair <spilios.makris@palindrometech.com>)
- **Research Group on "Software Defined and Virtualized Wireless Access"**
The aim of this RG is to identify and address the research issues that need to be solved and assess the feasibility of launching an IEEE standardization effort on Software Defined and Virtualized Wireless Access, with specific focus on various scenarios. Possible outcomes of the RG include one or more white paper(s) and/or a PAR which would initiate formal standardization within IEEE.
(Contact: Fabrizio Granelli, Chair <granelli@disi.unitn.it>)
- **Research Group on "Software Defined and Virtualized Ecosystem - Abstraction - Structured Network Objects (SNO)"**
The aim of this RG is to identify and formulate possible IEEE standardization efforts to define a high-level taxonomy and structure that represent the network and its functions. This group can identify the object structure needed for standardizing interfaces and descriptors for NFV. Possible outcomes of the RG include a white paper and/or a PAR toward the formal standardization within IEEE.
(Contact: Ken Kerpez, Chair <kkerpez@assia-inc.com>)
- **Task Group on "Service Virtualization"**
The objective of this Task Group is to leverage the existing body of work by IEEE P1903 Next Generation Service Overlay Network (NGSON) Working Group on next generation service overlay networks and define service specific functions for virtualization and softwarization.
(Contact: Mehmet Ulema, Chair <mehmet.ulema@manhattan.edu>)

You are cordially invited to participate in any of the standardization programs above. Please contact the individual chairs of the activities in which you are interested.

IEEE ComSoc currently sponsors 20+ standardization activities that are open to any ComSoc members. ComSoc Standards Activities Council is also looking for new ideas for standardization. Almost any research activity can lead to standardization. For more information on ComSoc standardization activities in general, please visit <http://committees.comsoc.org/CSPDB/> and/or contact:

Robert Fish - VP Standards (rob.fish@ieee.org)
Alex Gelman - Director, Standards Programs Development (adg@comsoc.org)
Mehmet Ulema - Director, Standards Development (mehmet.ulema@manhattan.edu)

1900-1999

Update of WTC Activities

WTC Sponsorship of Conferences

1. For Comsoc to act as a sponsor for a conference it needs endorsement from two TC
2. For a TC to endorse a conference it should be relevant to that TC plus three of its members should be involved in the conferences TPC
 - In your application to Comsoc please list their names with emails
 - Please also let me know in advance
3. Each of the three TC members involved now also now need to complete a simple evaluation report after the conference
4. This TC will generally sponsor if the criteria in item 2 is met
 - We have agreed to sponsor 3 conferences so far this year.



Update of WTC Activities

Recommendation for Symposium Co-Chairs of ICC 2016

1. WTC officers nominated 7 people to act as symposium co-chairs of ICC 2016 for 6 symposiums: Signal Processing for Communications Symposium, Wireless Communications Symposium, Mobile and Wireless Networking Symposium, Ad-hoc and Sensor Networking Symposium, Communication Theory Symposium, Cognitive Radio and Networks Symposium
2. ICC 2016 organizes then decide transparently and finalizes the list at a later ICC or Globecom
3. If you are interested in co-chairing future conferences please let us know by so we can consider in future requests
4. Usually have less volunteers than needed so please let us know!

Update of WTC Activities

WTC Recognition Award

- ◆ **Prize:** A recognition plaque.
- ◆ **Basis for Judging:** A person with a high degree of visibility and contribution in the field of “Wireless and Mobile Communications Theory, Systems and Networks”.
- ◆ **Presentation:** Annually. No more than two awards will be given per year.
- ◆ **Nomination:** Nominations are solicited from WTC members before October each year. The nomination should include a (short) sentence for "what service or accomplishment" the person is nominated for and a one page supporting material. Additionally, letters supporting the nomination may be sent to the WTC Award Committee Chair (together with the nomination or separately). Award Committee members may not be nominated.
- ◆ **WTC Recognition Award Committee:** The Award committee will have 5 members as follows:
 - Chair: Past WTC Chair
 - Members:
 1. Current WTC Chair
 2. 2nd Past WTC/TCPC Chair
 3. 3rd Past WCC/TCPC Chair
 4. WTC Member (appointed by the WTC Chair for one year; renewable for a maximum of one year)



Update of WTC Activities

WTC Other Accomplishment:

- ◆ Endorsement for IEEE Fellow:
 - WTC endorsed one active member for IEEE Fellow in 2014.

- ◆ Nomination for ComSoc Distinguished Lecturers:
 - Will be coming up again around August 2014
 - Nominations called for by email at that time
 - WTC nominated 4 DL (only received 4 nominations!)
 - If interested please start thinking about this



Our WTC

Website

1. Website: <http://bbcr.uwaterloo.ca/~wtc/>
2. Will change to ComSoc URL in the next few months
3. Membership: open to all ComSoc members
4. Our members are encouraged to volunteer in professional activities
5. All members may decide to opt out of the mass/bulk emails by logging onto the system and clicking the appropriate box
 - Of our 1306 members around 52 have opted out
6. Emails from the WTC Chair will however be sent to all members
 - To opt out of these you must terminate your membership and this can now also be done through web

Current Status of WTC

- ◆ WTC is one of the largest TCs in ComSoc with 1306 registered members as of 10 June, 2014 (20 new members since December 2013)
- ◆ WTC has two formal meetings each year at ICC and Globecom
- ◆ **Present Officers** (1 Jan 2013 - 31 December 2014)
 - **Chair:** Prof. Ross Murch, HKUST, Hong Kong
 - **Vice Chair:** Dr. Tarik Taleb, NEC Labs – Europe, Germany
 - **Secretary:** Prof. Shuguang Cui, Texas A&M University, USA
- ◆ **Past Chairs (WCTC/TCPC)**
 - Prof. Sherman Shen, Univ Waterloo, Canada
 - Prof. Mohsen Guizani, Kuwait University, Kuwait
 - Prof. Chengshan Xiao, Missouri U. of Sci. & Tech, USA
 - Prof. Halim Yanikomeroglu, Carleton U, Canada
 - Prof. Khaled Ben Letaief, HKUST, Hong Kong
 - Prof. Zygmunt Haas, Cornell U, USA
 - Prof. Elvino Sousa, U of Toronto, Canada
 - Dr. Justin Chuang, AT&T (now with Broadcom, USA)
 - Prof. Steve Rappaport, SUNY, New York
 - Prof. Henry Bertoni, Polytechnic University, NY, USA

IEEE ComSoc Wireless Communications Technical Committee

WTC Mission Statement:

The mission of WTC is to **sponsor** publications, conferences, technical sessions, workshops, and other information exchanges on architectures, applications, systems, terminals and technologies to provide wireless, mobile, location-independent communication and computing in voice, data and visual media. Its areas of interest include techniques for achieving portability, ubiquity and transparency using mobile and wireless networks ranging from physical layer, MAC layer, network layer to application layer. The committee also assumes the proactive duty to **nominate** suitable candidates for ComSoc and IEEE awards, **propose** distinguished lecturer candidates, and **endorse** deserving candidates for the election to IEEE Senior Member and Fellow grade, make contributions to standards in an organized form.



Does WTC need to play a greater role?

- ◆ Nomination of papers to the ComSoc awards committee?
 - Should we setup a committee to nominate papers from our TC?
 - Work in parallel with the open call in a similar way to DL
 - Less than 50 papers nominated to awards committee last round- important to increase the pool
- ◆ Can we be more active in standards?
 - 802 standards have had a big impact
 - Setup a committee to push some standards from this TC?
 - There are many initiatives in wireless
- ◆ Should we have our own conference like CTTC does?
- ◆ If interested please start thinking about this
- ◆ It is basically up to us to take the initiative!



Future ICCs and GCs

- ◆ Globecom 2014 – Austin, Texas, USA (8-12 December)

- ◆ ICC 2015- London, UK (8-12 June) Promotion video at: [is https://www.dropbox.com/s/pcci53dmleq93bk/ICC_LONDON_SHORT_VIDEO_v1.wmv](https://www.dropbox.com/s/pcci53dmleq93bk/ICC_LONDON_SHORT_VIDEO_v1.wmv)

- ◆ Globecom 2015- San Diego, USA (6-10 December)

- ◆ ICC 2016 – Kuala Lumpur, Malaysia

- ◆ 2017- ICC Paris and Globecom Washington



Other Major ComSoc Wireless Events

- ◆ **PIMRC 2014** (Washington DC, USA, 2-5, Sept. 2014)
- ◆ **ICCC 2014** (Shanghai, China, October 13 - 15, 2014)
- ◆ **WCNC 2015** (New Orleans, USA, March 9 - 12, 2015)

Next Meeting

Globecom 2014 in Austin, Texas
8-12 December, 2014

Any other Business?

Thank You!

Next WTC meeting will be held at
Globecom 2014 in Austin, Texas
8-12 December, 2014